

Title (en)
MICROWAVE HYPERTHERMIA PROBE

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Application
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Priority
US 10892387 A 19871015

Abstract (en)
[origin: EP0317067A2] Heating pattern uniformity is provided in a coaxial microwave hyperthermia probe (10) by varying the open area in the outer conductor (13) in an axial direction such that there is a maximum open area in the axial center portion. The variations may be provided by winding an outer conductor (17) in a helical pattern with a variable pitch or by cutting openings (34) of axially varying size in a solid outer conductor (33). The invention is applicable to both flexible and rigid probes.

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IPC 8 full level
A61N 5/04 (2006.01); **A61B 18/18** (2006.01)

CPC (source: EP US)
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Citation (search report)

- [X] US 4583556 A 19860422 - HINES MARION E [US], et al
- [YD] US 4669475 A 19870602 - TURNER PAUL F [US]
- [X] WO 8304182 A1 19831208 - BERKLEY & CO INC [US]
- [A] FR 2398510 A1 19790223 - LEVEEN HARRY [US]
- [A] US 4612940 A 19860923 - KASEVICH RAYMOND S [US], et al
- [A] US 4571473 A 19860218 - WYSLOUZIL WALTER [CA], et al
- [A] US 3230957 A 19660125 - GERHARD SEIFERT
- [A] DE 3611971 A1 19871015 - MUELLER CHRISTA DR [DE]

Cited by
EP0783903A1; FR2743498A1; US5974343A; WO2007030430A1; US10368942B2

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